

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An adaptive pneumatic seat cushion (1) and backrest cushion (2) for vehicles and aeroplanes, comprising: characterised in that

- it comprises a seat cushion (1) and a backrest cushion (2) which can be connected;
- both the seat cushion (1) and the backrest cushion further comprises: (2) comprise the following characteristics:
  - an airtight shell (3) filled with compressed air, wherein said which shell (3) is divided into an upper skin (4) and a lower skin (5);
  - there are a plurality number of webs (6, 7) which are arranged between the upper skin (4) and the lower skin, wherein said plurality of webs are adapted to connect the upper skin and the lower skin (5), thus interconnecting these;
  - of the wherein the plurality of webs include first webs which (6, 7) the first ones are single webs (6) and the second webs which ones are double webs (7) so that in each case at least one cavity (10) is formed between at least two of the plurality of each two webs; (7) and
    - so that this wherein the at least one cavity (10), of which there is at least one, is closed off from its surroundings in an airtight manner, except for an aperture for letting compressed air in or out;
    - the an interior of the shell can be filled with compressed air at a first pressure level  $p_1$ ; and
    - the cavities (10) can be pressurised at a second pressure level  $p_2$ ; and with air pressures  $p_2 > p_1$ ,  
wherein said second pressure level  $p_2$  is greater than said first pressure level  $p_1$ .

2. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 1, characterised in that wherein:

the double webs further include a first web and a second web; (7) are designed in such a way that

- wherein the first web of the webs (7) is connected to the second web (7) along two strips (9), wherein a the width of said first web (7) is narrower than a width of that of the second web (7) by an amount which corresponds to a the width of said two strips (9);

- wherein the second web (7) is connected both to the upper skin (4) and to the lower skin of the shell (5) along the two strips (9); and

— wherein the narrow sides of the double two webs (7) each are interconnected along a strip of the two strips (9) so that the cavity (10) between the double webs (7) is closed off by a plurality of the connections along the two strips (9).

3. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 1, wherein:

~~characterised in that~~ the cutouts of said a double web (7) are designed such that said cutouts so that they are identical all of the same size;

wherein said cutouts are that both directly adjacent to each other along a strip and (9) are each connected to the upper skin (4) and the lower skin (5); and

wherein that the narrow sides of said double two webs (7) each are interconnected along said a strip such (9) so that the cavity (10) between the double webs (7) is closed off by a plurality of the connections along the strips (9).

4. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 2 or 3, wherein ~~characterised in that~~ the double webs (7) are interconnected at least once more along said two strips such (9) so that at least two cavities 10 are formed.

5. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 2 or 3, wherein ~~characterised in that~~ at least on one end, a plurality of strips (11) are cut to the cutouts for the double webs (7), wherein said plurality of which strips are (11), interconnected by their borders, form air channels (12) for filling the cavities (10) with said compressed air.

6. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 5, wherein ~~characterised in that~~ spreader elements (13) are inserted into the air channels (12), wherein said which spreader elements (13) prevent the air channels from becoming closed off due to as a result of kinking.

7. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 2 or 3, wherein ~~characterised in that~~ in selected pairs of said double webs, (7) two connecting welding or gluing positions are provided across a the longitudinal extension of said double webs (7), wherein said connecting which welding or gluing positions extend along the an entire height of the double webs, thus defining two border zones regions (15) each and a middle zone (16) of the cavities (10), wherein the border zones are adapted to (15) can be filled with said compressed air, and the middle zone (16) is closed off from any supply of said compressed air.

8. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according claim 1 to any one of claims 1 to 7, wherein ~~characterised in that~~ all the connections between the plurality of webs (6, 7) and the shell are produced by an application of adhesive; (3),

wherein the latter is being divided into the an upper and the a lower skin; (4, 5); and

wherein the furthermore of double webs (7) between themselves and the cutouts (11) for the air channels (12) are produced by the application of the adhesive.

9. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 1 any one of claims 1 to 7, wherein characterised in that all the connections between the plurality of webs (6, 7) and the shell are produced by way of welding; (3),

wherein the latter is being divided into the an upper and the a lower skin; (4, 5), and wherein the furthermore of double webs (7) between themselves and the cutouts (11) for the air channels (12) are produced by way of welding.

10. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 1, wherein characterised in that each of the cavities (10) between the double webs (7) can individually be supplied with said compressed air.

11. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 1, wherein characterised in that the cavities (10) between the double webs (7) can be selectively grouped together and can thus together be supplied with said compressed air.

12. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 1 any one of claims 1 to 7, wherein characterised in that the material for the shell (3), the plurality of webs (6, 7) and the cutouts (11) for the air channels are formed from (12) comprises plastic.

13. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 1 any one of claims 1 to 7, wherein characterised in that the material for the shell (3), the plurality of webs (6, 7) and the cutouts (11) for the air channels are formed from (12) comprises a plastics-coated textile material.

14. (Currently Amended) The adaptive pneumatic seat cushion and backrest cushion according to claim 1, wherein characterised in that said seat cushion (1) and said backrest cushion (2) can be attached to a the seat structure by way of adherence-type closures which are attached to the seat structure construction and to the seat cushion and backrest cushion by gluing.

15. (New) The adaptive pneumatic seat cushion and backrest cushion according to claim 7, wherein at least one of said two connecting positions includes a welding position.

16. (New) The adaptive pneumatic seat cushion and backrest cushion according to claim 7, wherein at least one of said two connecting positions includes a gluing position.